

FIG. 1

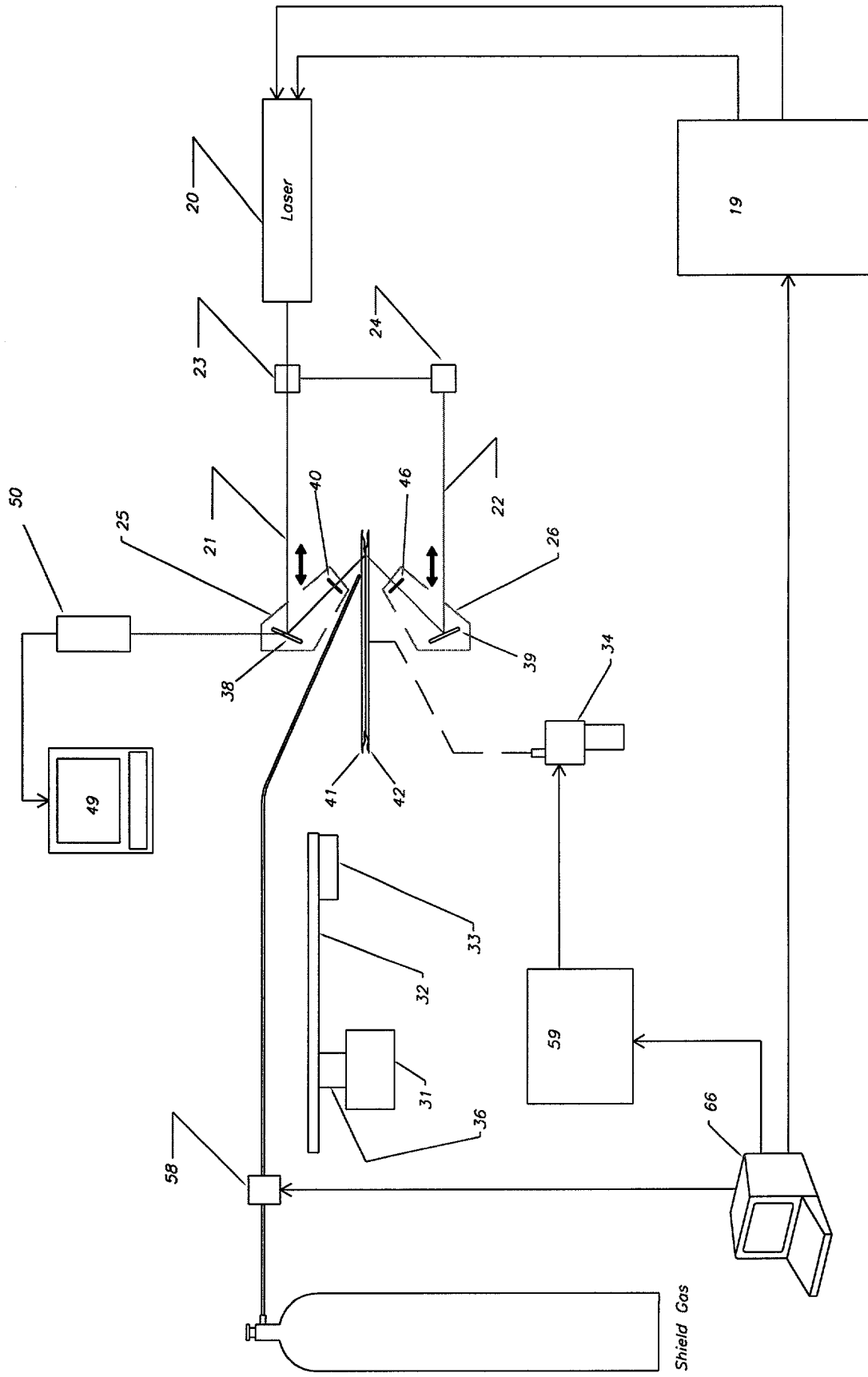


FIG 2

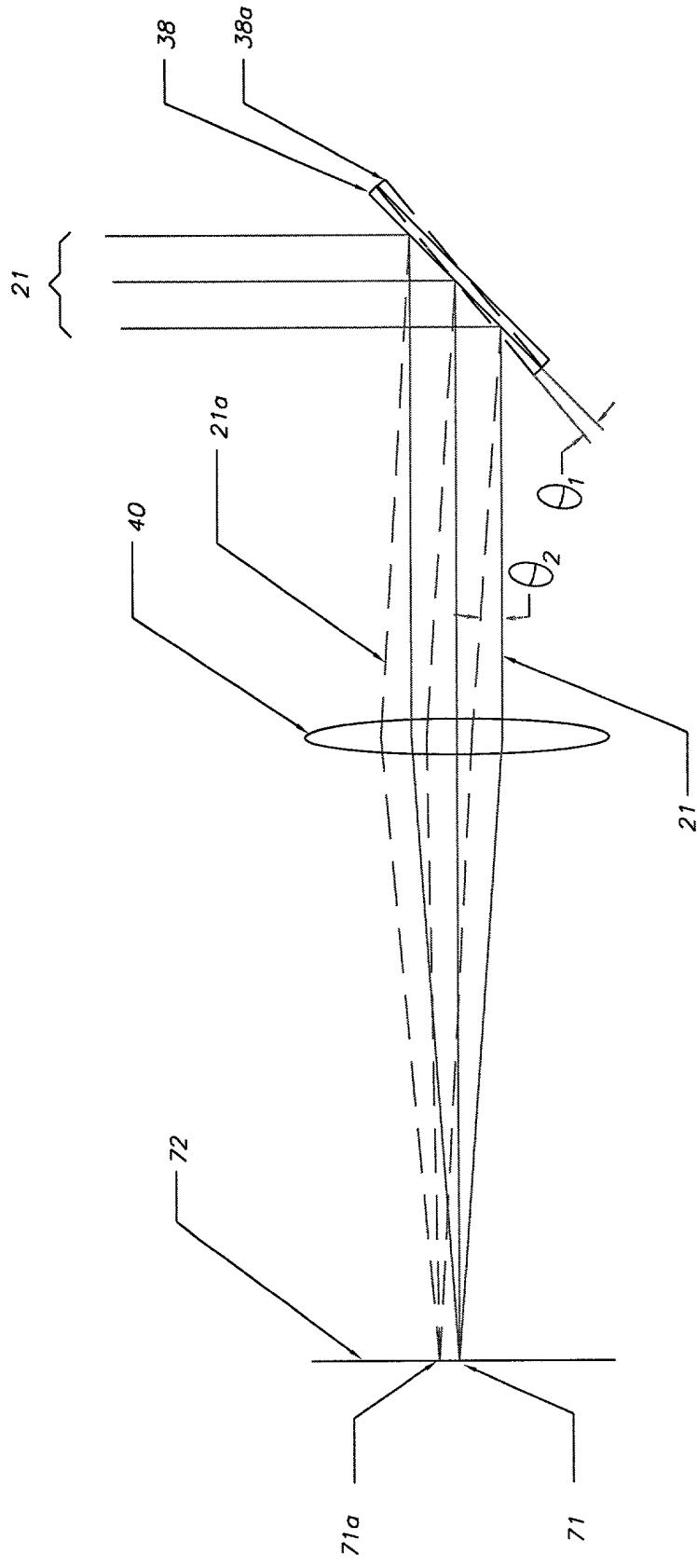


FIG 3

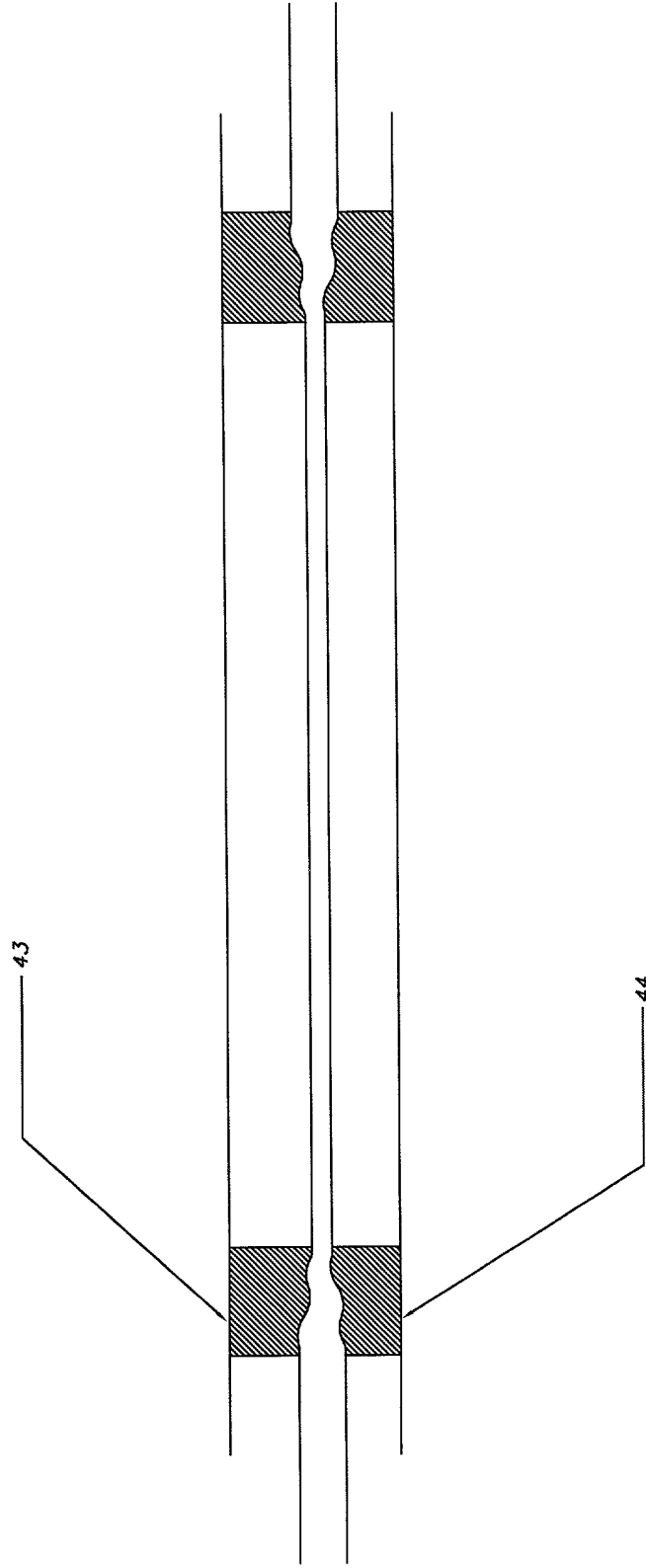
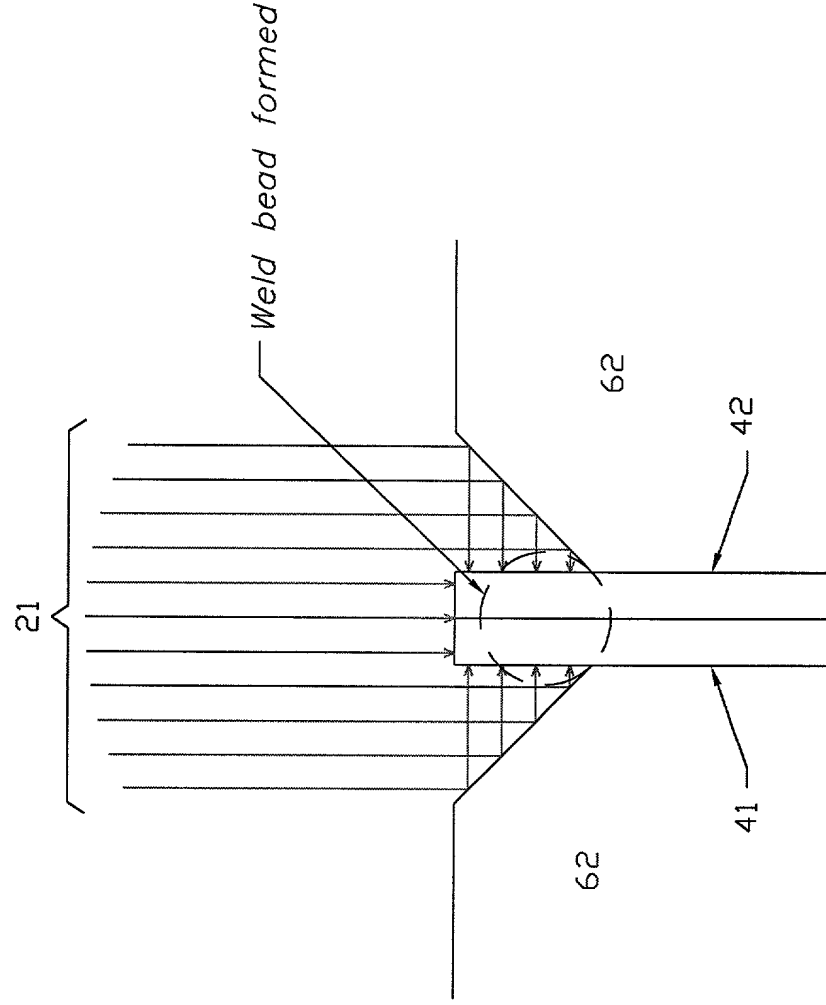
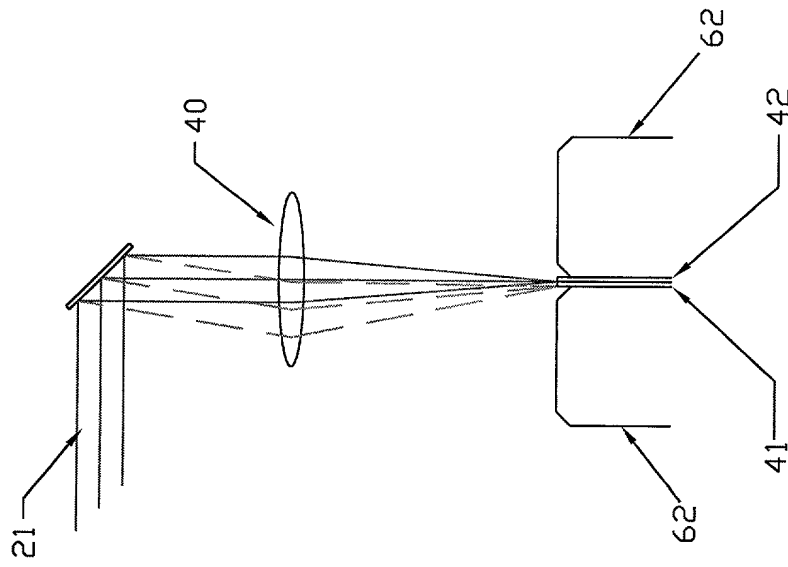


FIG 4



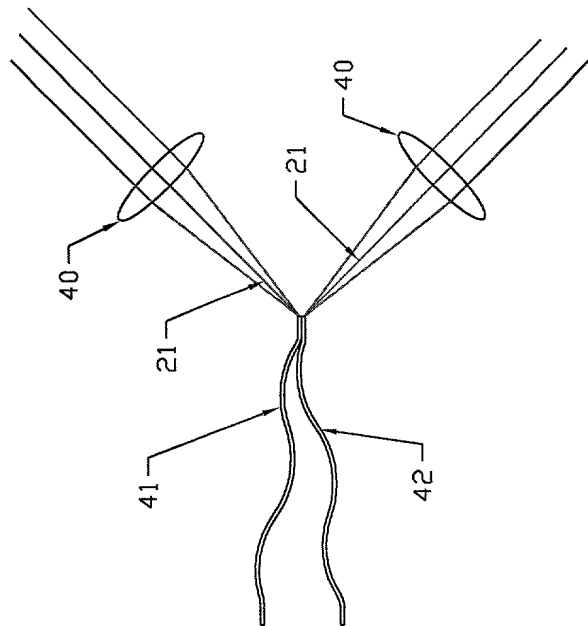


FIG. 6A

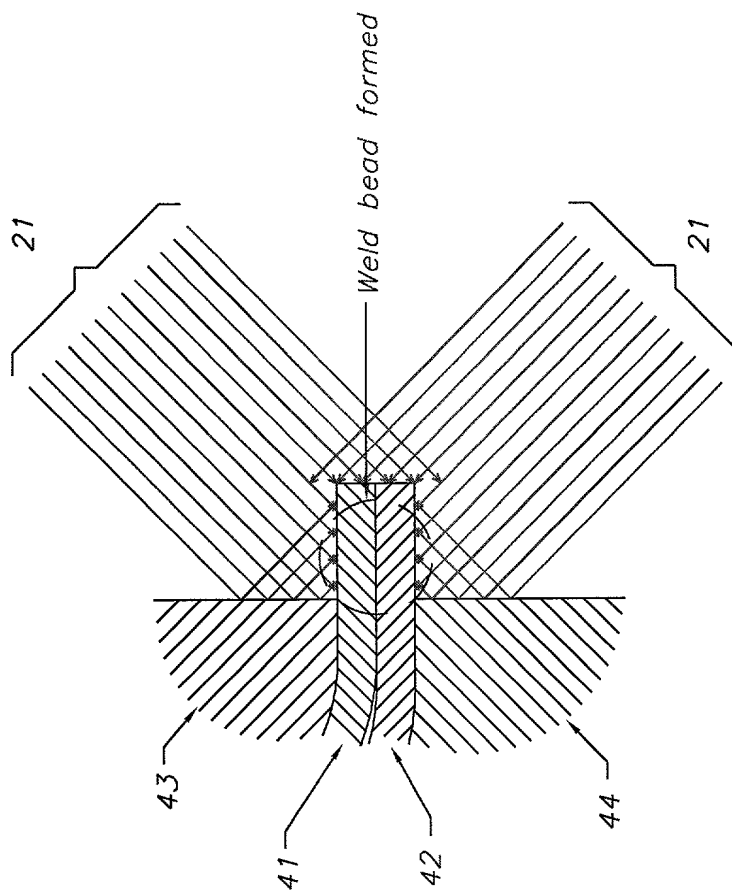


FIG. 6B

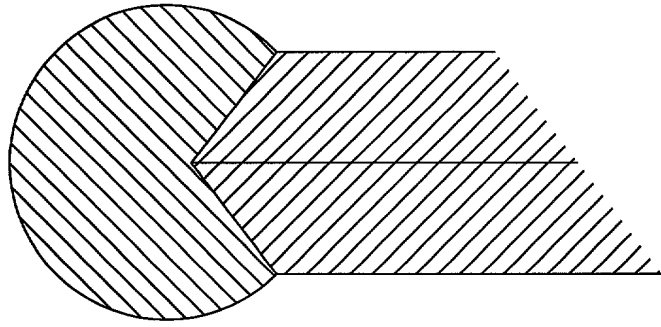


Fig. 7A

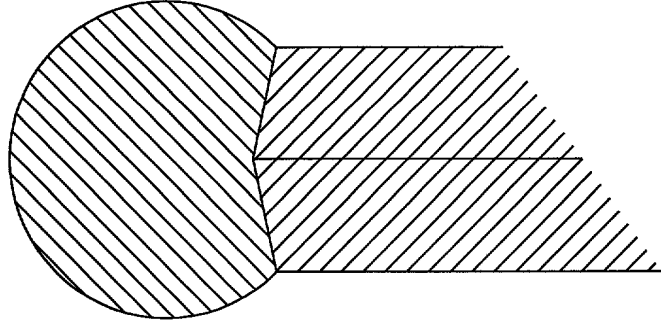


Fig. 7B

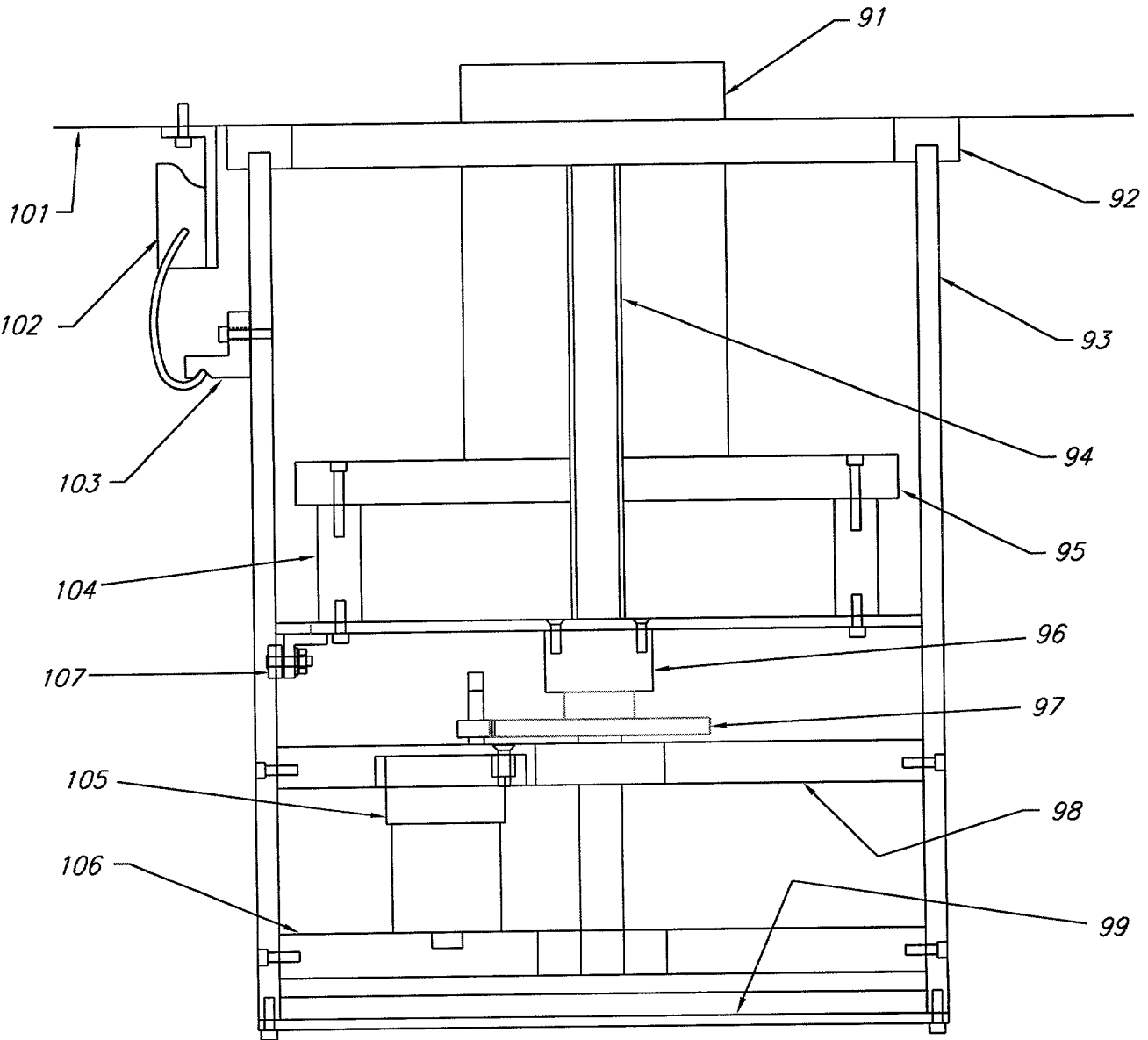
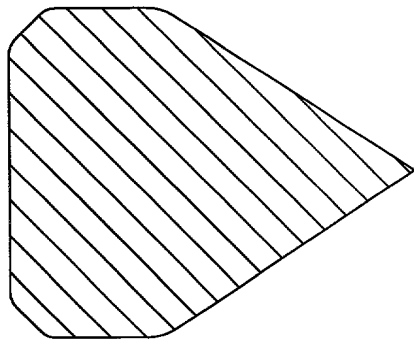


Fig. 8



Section A-A

FIG 9A

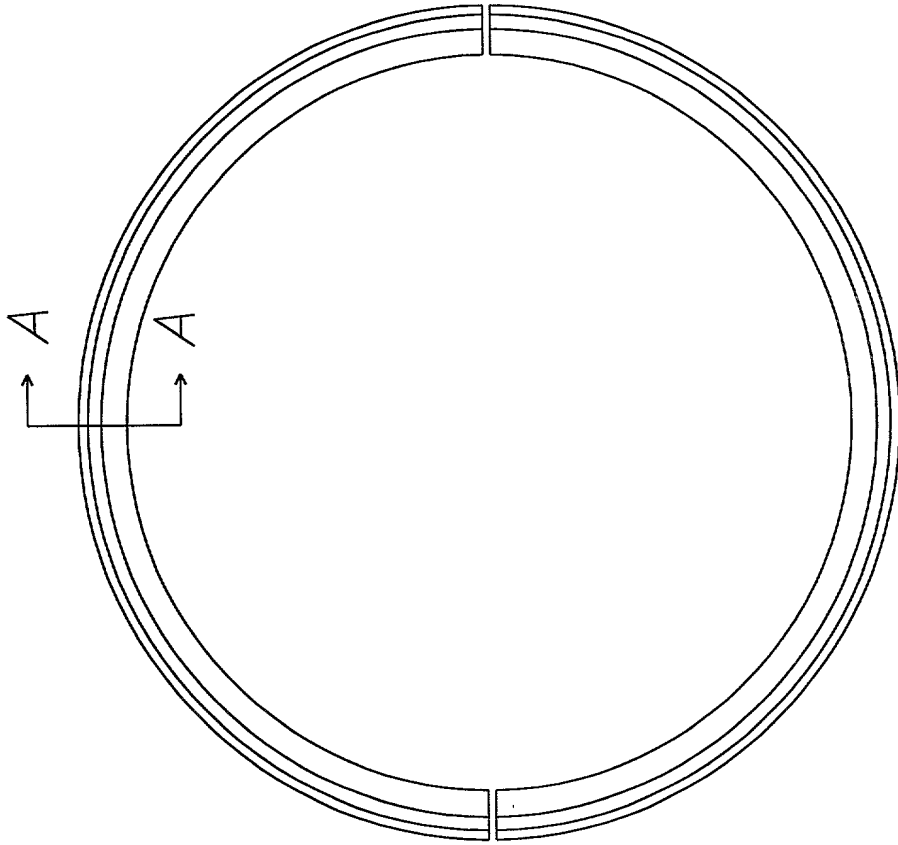


FIG 9B

*Molten beads may not run together,
forming incomplete weld*

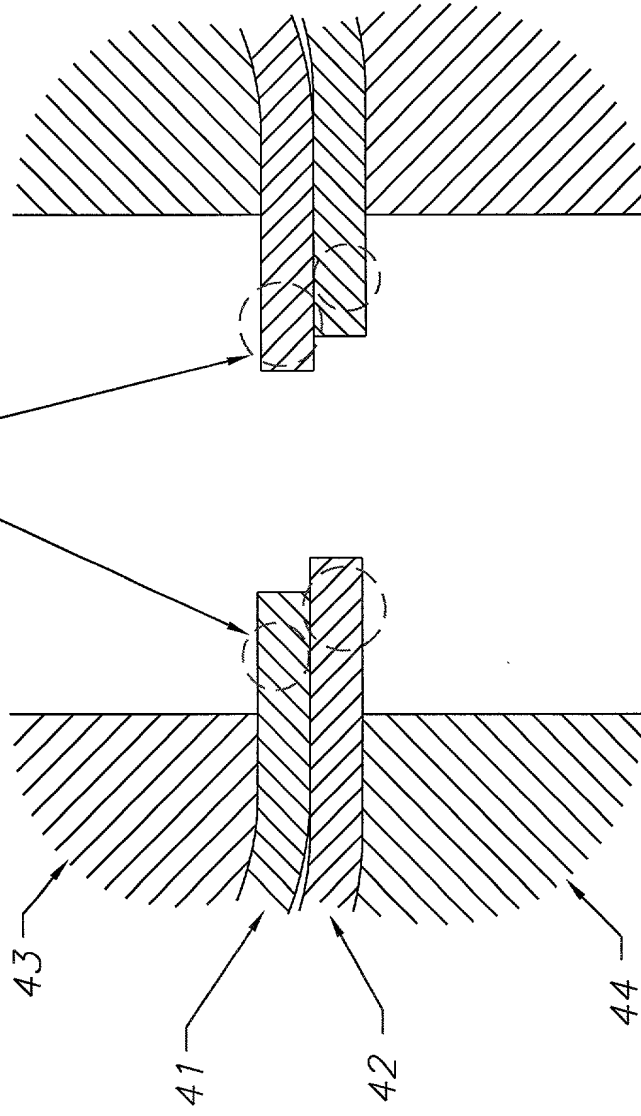


FIG 10

$$H \cdot 2t = A_w$$

$$H = \frac{3/2\pi \cdot t^2 + t^2}{2t}$$

$$H = \left(\frac{3}{4}\pi + 1/2 \right) t$$

$$H = 2.856t$$

$$Hd + \sqrt{2} \cdot t + t = H$$

$$Hd = H - \sqrt{2} \cdot t - t$$

$$Hd = 0.441t$$

Area of Circle
 $A_c = 2\pi \cdot t^2$

Area of Triangle
 $A_t = t^2$

Area of Pie
 $A_p = 1/4 A_c - A_t$
 $= 1/2\pi \cdot t^2 - t^2$

Welded area ($A_c - A_p$)
 $A_w = 2\pi \cdot t^2 - 1/2\pi \cdot t^2 + t^2$

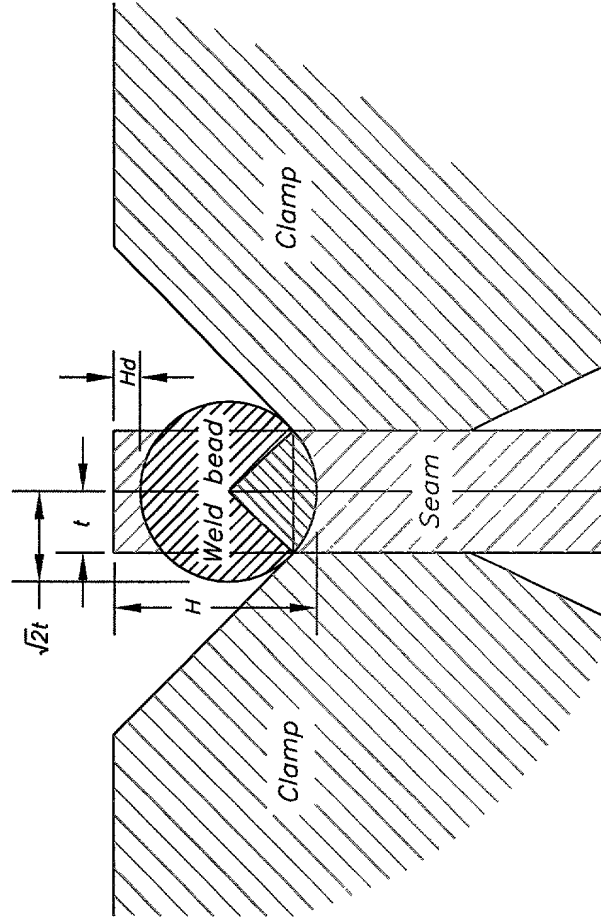


Fig. 11